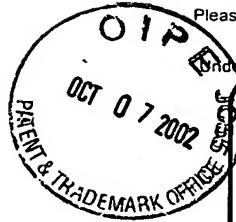


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| Application Number | 10/015,903 |
| Filing Date | Oct. 30, 2001 |
| First Named Inventor | Cherisse M. Nicastro |
| Group Art Unit | 2161 |
| Examiner Name | Unknown |

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Attorney Docket Number

TRIRG-01001US0

U.S. PATENT DOCUMENTS

| Examiner Initials ¹ | Cite No. ¹ | U.S. Patent Document | | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|--------------------------------|-----------------------|----------------------|-----------------------------------|---|--|---|
| | | Number | Kind Code ² (if known) | | | |
| CW | | 4,799,156 | | Shavit et al. | 01-17-1989 | |
| CW | | 4,870,576 | | Tornetta | 09-26-1989 | |
| CW | | 4,972,318 | | Brown et al. | 11-20-1990 | |
| | | 4,992,940 | | Dworkin | 02-12-1991 | |
| | | 5,528,490 | | Hill | 06-18-1996 | |
| | | 5,666,493 | | Wojcik et al. | 09-09-1997 | |
| | | 5,694,551 | | Doyle et al. | 12-02-1997 | |
| | | 5,710,887 | | Chelliah et al. | 01-20-1998 | |
| | | 5,715,314 | | Payne et al. | 02-03-1998 | |
| | | 5,742,931 | | Spiegelhoff et al. | 04-21-1998 | |
| | | 5,754,850 | | Janssen | 05-19-1998 | |
| | | 5,758,327 | | Gardner et al. | 05-26-1998 | |
| | | 5,758,328 | | Giovannoli | 05-26-1998 | |
| | | 5,761,674 | | Ito | 06-02-1998 | |
| | | 5,765,142 | | Allred et al. | 06-09-1998 | |
| | | 5,768,142 | | Jacobs | 06-16-1998 | |
| | | 5,842,178 | | Giovannoli | 11-24-1998 | |
| | | 5,847,971 | | Ladner et al. | 12-08-1998 | |
| | | 5,873,076 | | Barr et al. | 02-16-1999 | |
| | | 5,875,110 | | Jacobs | 02-23-1999 | |

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FOREIGN PATENT DOCUMENTS

| Examiner Initials ¹ | Cite No. ¹ | Foreign Patent Document | | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
|--------------------------------|-----------------------|-------------------------|---------------------|---|--|---|----------------|
| | | Office ³ | Number ⁴ | | | | |
| CW | | WO 01 63449 | A | Empriva Inc. | 08-30-2001 | | |
| | | WO 01 67279 | A | Marnell Corrao Assoc. | 09-13-2001 | | |
| | | JP 07271569 | A | Hitachi Software | 10-20-1995 | | |
| | | WO 98 43155 | A | MCI Comm. Corp. | 10-01-1998 | | |
| | | EP 0 959 421 | A | Autodesk Inc. | 11-24-1999 | | |

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| Application Number | 10/015,903 | RECEIVED |
| Filing Date | Oct. 30, 2001 | JAN 13 2003 |
| First Named Inventor | Cherisse M. Nicastro | |
| Group Art Unit | 2161 | |
| Examiner Name | Unknown | |
| Attorney Docket Number | TRIRG-01001US | Technology Center 2100 |

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

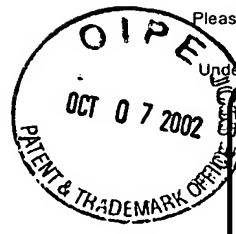
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|--------------------|-----------------------|---|----------------|
| W | | http://www.fedcenter.com printed 5/22/2000 | |
| W | | http://www.rent.net printed 5/22/2000 | |
| | | http://www.apartments.com printed 5/22/2000 | |
| | | http://www.us.buy.com printed 5/22/2000 | |
| | | http://www.designmanager.com printed 3/6/2002 | |
| | | THOMAS A. WUCHERER, "An Architectural Design Program Computer Data Base" December 1987 | |
| | | TOM FIELD, "Reengineering the Engineering Business", CIO Magazine Feb. 1, 1998 | |
| | | P. KRISTOFF, et al., "The Process Specification System for MMST", IEEE TRANSACTIONS OF SEMICONDUCTOR MANUFACTURING, vol. 8, no. 3, Aug. 1995, pp. 262-271 | |
| | | J. MCGEE, et al., "The MMST Computer-Integrated Manufacturing System Framework", IEEE TRANSACTIONS ON SEMICONDUCTOR MANUFACTURING, vol. 7, no. 2, May 1994, pp.107-116 | |
| | | T-K PENG, et al., "A Step Toward STEP-Compatible Engineering Data Management: The Data Models of Product Structure And Engineering Changes", ROBOTICS AND COMPUTER INTEGRATED MANUFACTURING, vol. 14, no. 2, April 1, 1998, pp. 89-109 | |
| | | HORI, et al., "OpenMES: Scalable Manufacturing Execution Framework Based On Distributed Object Computing", SYSTEMS, MAN AND CYBERNETICS, 1999, IEEE SMC '99 Conf. Proceedings 1999 IEEE Int'l Conf., Tokyo, Japan, Oct. 12-15, 1999, pp. 398-403 | |

| | | | |
|--------------------|----------------------|-----------------|----------|
| Examiner Signature | 01/08/04 handwritten | Date Considered | 01/08/04 |
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Application Number 10/015,903

Filing Date Oct. 30, 2001

First Named Inventor Cherisse M. Nicastro

Group Art Unit 2161

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| U.S. PATENT DOCUMENTS | | | | | |
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| | | Number | | | |
| <i>RECEIVED OCT 09 2002 GROUP 3600</i> | | | | | |
| CW | | 5,895,454 | Harrington | 04-20-1999 | |
| | | 5,899,980 | Wilf et al. | 05-04-1999 | |
| | | 5,903,877 | Berkowitz et al. | 05-11-1999 | |
| | | 5,926,798 | Carter | 07-20-1999 | |
| | | 5,932,459 | Sittinger et al. | 08-03-1999 | |
| | | 5,946,665 | Suzuki et al. | 08-31-1999 | |
| | | 5,950,173 | Perkowski | 09-07-1999 | |
| | | 5,956,709 | Xue | 09-21-1999 | |
| | | 5,970,472 | Allsop et al. | 10-19-1999 | |
| | | 5,970,475 | Barnes et al. | 10-19-1999 | |
| | | 5,974,395 | Bellini et al. | 10-26-1999 | |
| | | 5,999,915 | Nahan et al. | 12-07-1999 | |
| | | 6,002,855 | Ladner et al. | 12-14-1999 | |
| | | 6,009,413 | Webber et al. | 12-28-1999 | |
| | | 6,014,644 | Erickson | 01-11-2000 | |
| | | 6,026,376 | Kenney | 02-15-2000 | |
| | | 6,047,290 | Kennedy et al. | 04-04-2000 | |
| | | 6,064,982 | Puri | 05-16-2000 | |
| | | 4,700,318 | Ockman | 10-13-1987 | |
| | | 5,189,606 | Burns et al. | 02-23-1993 | |

FOREIGN PATENT DOCUMENTS

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| Examiner Signature | <i>Andy Bryant</i> | Date Considered | 01/08/04 |
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| INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i> | | | | Application Number | 10/015,903 |
| | | | | Filing Date | Oct. 30, 2001 |
| | | | | First Named Inventor | Cherisse M. Nicastro |
| | | | | Group Art Unit | 2161 |
| | | | | Examiner Name | Unknown |
| | | | | Attorney Docket Number | TRIRG-01001US0 |
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